

FIGURE 2

FIGURE 3



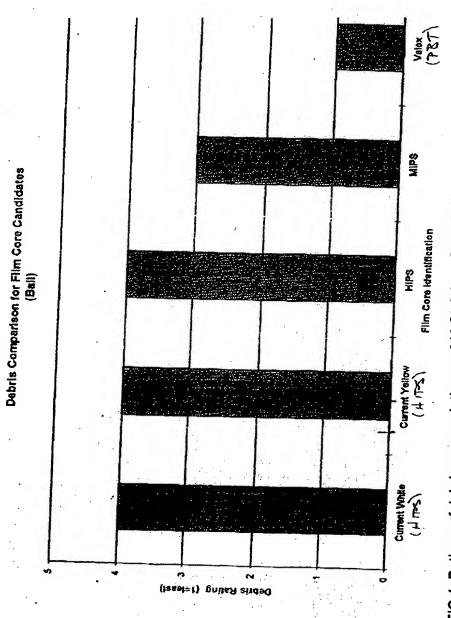
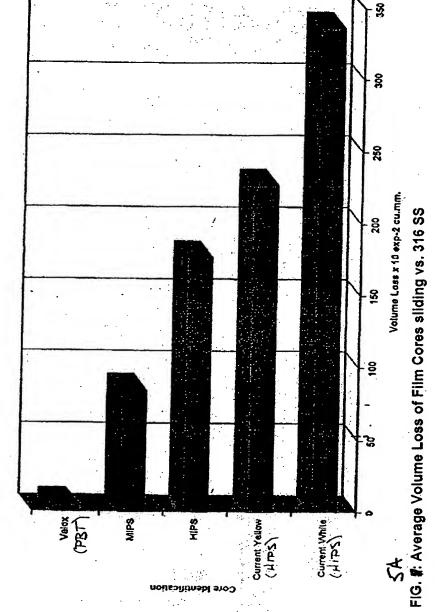


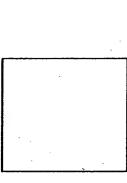
FIG 4: Ratings of debris accumulation on 316 Stainless Steel Balls

\* Rating per Kodak internal test method based on weight loss. The higher the number the greater the weight loss (debris generated).

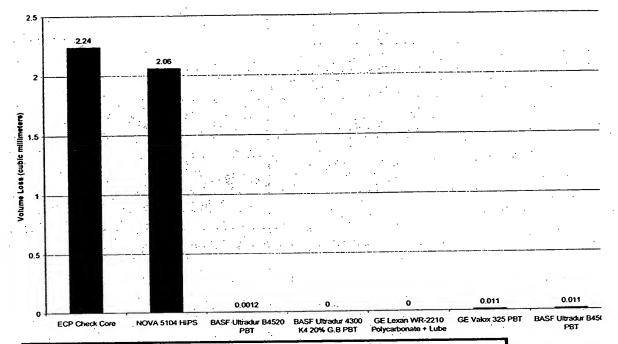


Volume Loss of Film Cores

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Volume Loss Measurements of Various Cores and Table of calculated Wear Rate Coefficients (k).

FIG. 58 QUALTITATIVE MEASUREMENTS

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			Coefficient of Friction			
	·	Mold Texture (Ra				
SPI Finish	Finish Type	(microns, measured)	(+2 STD)	(-2 STD)	Average	STD
HIPS (Novacor "5104")	600 Grit Paper	0.10	0.63	0.53	0.58	0.027
A1	#3 Diamond Buff	0.02	0.32	0.28	0.30	0.012
A3	#15 Diamond Buff	0.04	0.28	0.24	0.26	0.01
D2E	EDM, Charmilles 18	0.80	0.29	0.23	0.26	0.015
. B1	600 Grit Paper	0.10	0.24	0.18	0.21	0.017
D1 .	#12 Glass Bead	0.37	0.24	0.18	0.21	0.017
C3	320 Stone	0.29	0.25	0.17	0.21	0.021
D2	#10 Glass Bead	0.37	0.26	0.16	0.21	0.025
C1	600 Stone	0.32	0.21	0.17	0.19	0.01
B3	320 Grit Paper	0.23	0.21	0.15	0.18	0.015
D3	EDM, Charmilles 24	1.57	. 0.2	0.1	0.15	0.026

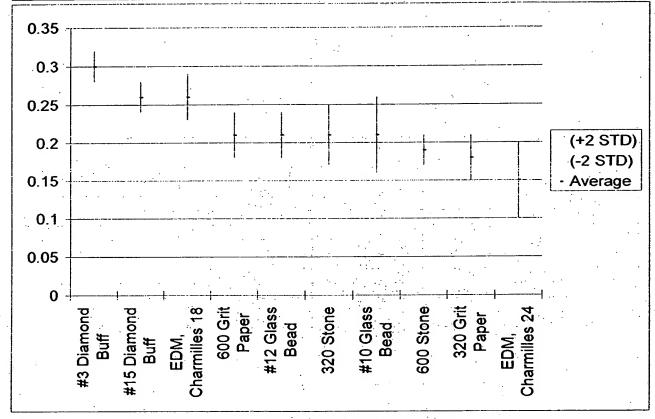


FIG 6: Static coefficient of friction of photographic film (emulsion side) against AISI type 316 stainless steel vs. mold surface texture

**Mechanical Property Comparison** 

	HIPS	PBT		
· · <u></u>	Nova "5104"	GE "Valox 325"		
Tensile Eleongation	55%	200%		
Flexural Strength	62 MPa	83 MPa		
Tensile Strength	27 MPa	52 MPa		
Flexural Modulus	2,300 Mpa	2,300 MPa		

FIG 7: Mechanical property comparison for PBT v HIPS

